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Information security, cybersecurity and privacy protection — Evaluation criteria for IT security —

Part 4: Framework for the specification of evaluation methods and activities

*Sécurité de l'information, cybersécurité et protection de la vie privée
— Critères d'évaluation pour la sécurité des technologies de l'information —*

Partie 4: Cadre prévu pour la spécification des méthodes d'évaluation et des activités connexes



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Contents

	Page
Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General model of evaluation methods and evaluation activities	1
4.1 Concepts and model.....	1
4.2 Deriving evaluation methods and evaluation activities.....	3
4.3 Verb usage in the description of evaluation methods and evaluation activities.....	5
4.4 Conventions for the description of evaluation methods and evaluation activities.....	6
5 Structure of an evaluation method	6
5.1 Overview.....	6
5.2 Specification of an evaluation method.....	7
5.2.1 Overview.....	7
5.2.2 Identification of evaluation methods.....	8
5.2.3 Entity responsible for the evaluation method.....	9
5.2.4 Scope of the evaluation method.....	9
5.2.5 Dependencies.....	9
5.2.6 Required input from the developer or other entities.....	9
5.2.7 Required tool types.....	10
5.2.8 Required evaluator competences.....	10
5.2.9 Requirements for reporting.....	10
5.2.10 Rationale for the evaluation method.....	10
5.2.11 Additional verb definitions.....	12
5.2.12 Set of evaluation activities.....	12
6 Structure of evaluation activities	12
6.1 Overview.....	12
6.2 Specification of an evaluation activity.....	12
6.2.1 Unique identification of the evaluation activity.....	12
6.2.2 Objective of the evaluation activity.....	12
6.2.3 Evaluation activity links to SFRs, SARs, and other evaluation activities.....	13
6.2.4 Required input from the developer or other entities.....	13
6.2.5 Required tool types.....	13
6.2.6 Required evaluator competences.....	13
6.2.7 Assessment strategy.....	13
6.2.8 Pass/fail criteria.....	14
6.2.9 Requirements for reporting.....	15
6.2.10 Rationale for the evaluation activity.....	15
Bibliography	16

Foreword

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Introduction

The ISO/IEC 15408 series permits comparability between the results of independent security evaluations, by providing a common set of requirements for the security functionality of IT products and for assurance measures applied to these IT products during a security evaluation. ISO/IEC 18045 provides a companion methodology for some of the assurance requirements specified in the ISO/IEC 15408 series.

The model of security evaluation in ISO/IEC 15408-1 identifies that high-level generic evaluation activities are defined in ISO/IEC 18045, but that more specific evaluation activities (EAs) can be defined as technology-specific adaptations of these generic activities for particular evaluation contexts, e.g. for security functional requirements (SFRs) or security assurance requirements (SARs) applied to specific technologies or target of evaluation (TOE) types. Specification of such evaluation activities is already occurring amongst practitioners and this creates a need for a specification for defining such evaluation activities.

This document describes a framework that can be used for deriving evaluation activities from work units of ISO/IEC 18045 and grouping them into evaluation methods (EMs). Evaluation activities or evaluation methods can be included in protection profiles (PPs) and any documents supporting them. Where a PP, PP-Configuration, PP-Module, package, or Security Target (ST) identifies that specific evaluation methods/evaluation activities are to be used, then the evaluators are required by ISO/IEC 18045 to follow and report the relevant evaluation methods/evaluation activities when assigning evaluator verdicts. As noted in ISO/IEC 15408-1, in some cases an evaluation authority can decide not to approve the use of particular evaluation methods/evaluation activities: in such a case, the evaluation authority can decide not to carry out evaluations following an ST that requires those evaluation methods/evaluation activities.

This document also allows for evaluation activities to be defined for extended SARs, in which case derivation of the evaluation activities relates to equivalent action elements and work units defined for that extended SAR. Where reference is made in this document to the use of ISO/IEC 18045 or ISO/IEC 15408-3 for SARs (such as when defining rationales for evaluation activities), then, in the case of an extended SAR, the reference applies instead to the equivalent action elements and work units defined for that extended SAR.

For clarity, this document specifies how to define evaluation methods and evaluation activities but does not itself specify instances of evaluation methods or evaluation activities.

The following NOTE appears in other parts of the ISO/IEC 15408 series and in ISO/IEC 18045 to describe the use of bold and italic type in those documents. This document does not use those conventions, but the NOTE has been retained for alignment with the rest of the series.

NOTE This document uses bold and italic type in some cases to distinguish terms from the rest of the text. The relationship between components within a family is highlighted using a bolding convention. This convention calls for the use of bold type for all new requirements. For hierarchical components, requirements are presented in bold type when they are enhanced or modified beyond the requirements of the previous component. In addition, any new or enhanced permitted operations beyond the previous component are also highlighted using bold type.

The use of italics indicates text that has a precise meaning. For security assurance requirements the convention is for special verbs relating to evaluation.